

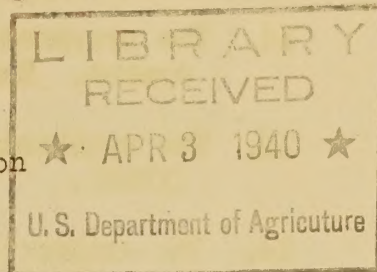
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Bureau of Agricultural Chemistry and Engineering  
U. S. Department of Agriculture

PUBLICATIONS ON DYE CHEMISTRY

Industrial Farm Products Research Division



GENERAL

1. Photographic sensitizing dyes: their synthesis and absorption spectra.  
L. E. Wise and E. Q. Adams. J. Ind. Eng. Chem. 10, p. 801 (1918).
2. A method for the purification of certain azo dyes. H. A. Lubs.  
J. Ind. Eng. Chem. 11, p. 456 (1919).
3. Intermediates used in the preparation of photosensitizing dyes.  
I. Quinoline bases. L. A. Mikeska, J. K. Stewart, and L. E. Wise.  
J. Ind. Eng. Chem. 11, p. 456 (1919).
4. Intermediates used in the preparation of photosensitizing dyes.  
II. Quaternary halides. C. H. Lund and L. E. Wise. J. Ind. Eng.  
Chem. 11, p. 458 (1919).
5. Synthesis of photosensitizing dyes: Pinaverdol and pinacyanol.  
L. E. Wise, E. Q. Adams, J. K. Stewart, and C. H. Lund. J. Ind.  
Eng. Chem. 11, p. 460 (1919).
6. Synthesis of photosensitizing dyes (II). Dicyanine A. L. A. Mikeska,  
H. L. Haller and E. Q. Adams. J. Amer. Chem. Soc. 42, p. 2392 (1920).
7. Isocyanine dyes from lepidine and its homologs. E. Q. Adams and  
H. L. Haller. J. Amer. Chem. Soc. 42, p. 2389 (1920).
8. Kryptocyanines: A new series of photosensitizing dyes. E. Q. Adams  
and H. L. Haller. J. Amer. Chem. Soc. 42, p. 2661 (1920).
9. Dyes now tested by government experts. J. A. Ambler.  
The Jour. of Commerce and Commercial Bulletin, March 7, 1921.
10. A compilation of American dye patents in abstract form. (Letter)  
J. A. Ambler. Chem. & Met. Eng. 24, p. 636 (1921).  
Chemical Age 29, p. 156 (1921).
11. Alkali fusions. III. Fusion of phenylglycine-o-carboxylic acid for  
the production of indigo. Max Phillips. J. Ind. Eng. Chem. 13,  
p. 759 (1921).
12. Some errors in Schultz's Farbstofftabellen, 1914 edition. Aida M. Doyle  
and J. A. Ambler. Color Trade Jour. 10, 3, p. 95 (1922).
13. Cross index Green-Schultz and Schultz-Green numbers. H. Wales.  
Amer. Dyestuff Reporter, 10, 13, p. 461 (1922).

14. The preparation of 6-6'-Di-(Alpha Hydroxyisopropyl) indigo from para cymene. Max Phillips. J. Amer. Chem. Soc., 44, p. 1775 (1922)
15. The synthesis of dicyanine. A. S. Palkin. Ind. Eng. Chem. 15, p. 379 (1923).
16. The estimation of erythrosine. W. C. Holmes. Color Trade Jour. 13, p. 4 (1923).
17. The spectroscopy of dyes. W. C. Holmes. Color Trade Jour. 13, p. 6 (1923).
18. Volumetric estimation of auramine. W. C. Holmes. Color Trade Jour. 13, p. 45 (1923).
19. The spectrophotometric identification of dyes. I. Acid dyes of the patent blue type. W. C. Holmes. Ind. Eng. Chem. 15, p. 833 (1923).
20. Influence of temperature at which the solution of dyes is effected upon the nature of the solution. W. C. Holmes. Color Trade Jour. 13, p. 54 (1923).
21. Adsorbed moisture and water of crystallization in certain common dyes. H. Wales and O. A. Nelson, J. Amer. Chem. Soc., 45, p. 1657 (1923).
22. The properties of dyed materials. H. Wales. J. Amer. Chem. Soc., 45, pp. 2420-2430 (1923).
23. The spectroscopy of the sulfonated indigotines. W. C. Holmes. J. Amer. Chem. Soc. 46, pp. 208-214 (1924).
24. The influence of variation in concentration on the absorption spectra of dye solutions. Preliminary paper. W. C. Holmes. Ind. Eng. Chem. 16, p. 35 (1924).
25. The absorption spectra of certain derivatives of p-cymene. W. C. Holmes. J. Amer. Chem. Soc. 46, 3, pp. 631-635 (1924).
26. The influence of constitutional variation in dyes upon their relative absorption in aqueous and alcoholic solutions. W. C. Holmes. J. Amer. Chem. Soc. 46, 9, pp. 2118-2124 (1924).
27. The influence of constitutional variation upon the absorption and stability to hydrogen ions of certain halogenated derivatives of fluorescein. W. C. Holmes. J. Amer. Chem. Soc. 46, 12, pp. 2770-2775. (1924).
28. The hydrolysis of auramine. W. C. Holmes and J. F. Darling. J. Amer. Chem. Soc. 46, 10, pp. 2343-2348 (1924).
29. The spectrophotometric identification of dyes. II. Basic fuchsin. W. C. Holmes. Ind. Eng. Chem. 17, 1, p. 59 (1925).

30. Analysis of dye mixtures by means of titanous chloride. W. C. Holmes. Amer. Dyestuff Reporter 14, p. 415 (1925).
31. The spectrophotometric identification of dyes. III. Basic violets of the triphenylmethane group. W. C. Holmes. Ind. Eng. Chem. 17, 9, p. 918 (1925).
32. Note on the identification of phosphotungstic-basic dye lakes. W. C. Holmes. Amer. Dyestuff Reporter 14, p. 481 (1925).
33. Azo dyes from alkaloids of ipecac root and their identification by means of the spectroscope. S. Palkin and H. Wales. J. Amer. Chem. Soc. 47, p. 2005 (1925).
34. The oxidation products of methylene blue. W. C. Holmes and R. W. French. Stain Technology 1, p. 17 (1926).
35. The preparation and properties of methyl-isopropyl-quinoline yellow. Max Phillips and M. J. Goss. J. Amer. Chem. Soc. 48, 3, pp. 823-826 (1926).
36. The spectrophotometric evaluation of dye mixtures. W. C. Holmes. Amer. Dyestuff Reporter, 15, 3, p. 189 (1926).
37. The choice of solvent in spectrophotometric dye analysis. W. C. Holmes. Amer. Dyestuff Reporter, 15, 4, p. 247 (1926).
38. The use of aluminum chloride in the synthesis of anthraquinone dyes. Max Phillips. Chem. & Met. Eng. 33, p. 173 (1926).
39. Dye solution phenomena with variation in hydrogen ion concentration. With particular reference to dye identification. W. C. Holmes and J. F. T. Berliner. Amer. Dyestuff Reporter 16, p. 81 (1927).
40. Note. Colloidal phenomena in dye solutions. W. C. Holmes. J. Amer. Chem. Soc. 49, p. 790 (1927).
41. The tautomerism of aminated dyes with variation in concentration. W. C. Holmes. Amer. Dyestuff Reporter 16, p. 429 (1927).
42. Constitution of erythrosin and related dyes. W. C. Holmes and J. T. Scanlan. J. Amer. Chem. Soc. 49, 6, pp. 1594-1598 (1927).
43. Subsidiary dyes in methylene blue. W. C. Holmes. Stain Technology 2, 3, pp. 71-73 (1927).
44. The iodometric evaluation of methylene blue. W. C. Holmes. J. Assoc. Official Agricultural Chemists 10, 4, pp. 505-507 (1927).

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45. The evaluation of ethyl eosin. W. C. Holmes and J. T. Scanlan. Stain Technology, 2, 4, pp. 101-103 (1927).
46. The atmospheric oxidation, or dealkylation of aqueous solutions of methylene blue. W. C. Holmes and E. F. Snyder. Stain Technology 4, 1, pp. 7-10 (1928).
47. Reactions of basic dyes with cyclic derivatives of an acid character. W. C. Holmes and R. M. Hann. Stain Technology 3, 4, pp. 122-130 (1928).
48. Monochromatic light filters for the visible spectrum. W. C. Holmes. Amer. Dyestuff Reporter 17, p. 31 (1928).
49. The analysis of neutral red and of the pyronins. W. C. Holmes and A. R. Peterson. Stain Technology 5, 3, pp. 91-96 (1930).
50. The atmospheric dealkylation of aqueous solutions of cresyl blue. W. C. Holmes and A. R. Peterson. Stain Technology 6, p. 79 (1931).
51. The spectrophotometric analysis of a mixture of three dyes. A. R. Peterson and W. C. Holmes. Amer. Dyestuff Reporter 20, p. 483 (1931).
52. Color in fertilizers. J. O. Hardesty and J. T. Scanlan. Ind. Eng. Chem. 23, 12, p. 1431 (1931).
53. The visual spectrophotometry of dyes. W. C. Holmes, J. T. Scanlan, and A. R. Peterson. U. S. D. A. Technical Bulletin No. 310, 42 pages. (1932).
54. Certain correlations between the constitution of dyes and their color intensity. A. R. Peterson and W. C. Holmes. Jour. Phys. Chem. 36, p. 633 (1932).
55. Transmission spectra of dyes in the solid state. W. C. Holmes and A. R. Peterson. J. Phys. Chem. 36, pp. 1248-1254 (1932).
56. Volumetric reduction of dyes with hydrosulfite. W. C. Holmes, C. G. Melin and A. R. Peterson. Amer. Dyestuff Reporter 21, p. 213 (1932).
57. Eosin B. W. C. Holmes, C. G. Melin and A. R. Peterson. Stain Technology 7, 4, pp. 121-127 (1932).
58. The ketonimine dyestuffs and their derivatives. D. F. J. Lynch and J. D. Reid. J. Amer. Chem. Soc. 55, 6, pp. 2515-2520 (1933).
59. The Magenta Series. I. The preparation and spectrophotometric study of the lower basic members. J. T. Scanlan. J. Amer. Chem. Soc. 57, 5, pp. 887-892 (1935).
60. Some ketonimine dyes and related compounds. J. D. Reid and D. F. J. Lynch. J. Amer. Chem. Soc. 58, pp. 1430-1432 (1936).
61. The Magenta Series. II. Some higher basic members. J. T. Scanlan. J. Amer. Chem. Soc. 58, 8, pp. 1427-1429 (1936).

BIOLOGICAL STAINS

1. The investigation of biological stains in the Color Laboratory of the Bureau of Chemistry. J. A. Ambler and W. C. Holmes. Science 60, 1561, pp. 501-502 (1924).
2. Preparation of brilliant congo R ("Vital Red") and suitability of various samples of vital red for blood volume work. S. Palkin and H. M. Evans. J. Amer. Chem. Soc. 47, p. 429 (1925).
3. Stain solubilities. Part I. Data in the literature. W. C. Holmes. Stain Technology 2, 2, pp. 44-49 (1927).
4. Stain solubilities. Part II. W. C. Holmes. Stain Technology 2, 3, pp. 68-70 (1927).
5. Stain solubilities. Part III. W. C. Holmes. Stain Technology 3, 1, pp. 12-13 (1928).
6. The spectrophotometric evaluation of mixtures of methylene blue and trimethyl thionin. W. C. Holmes. Stain Technology 3, 2, pp. 45-48 (1928).
7. The tautomerism of brilliant cresyl blue. W. C. Holmes. J. Amer. Chem. Soc. 50, 7, pp. 1989-1993 (1928).
8. The chemical analysis of thiazine eosinates. W. C. Holmes. Stain Technology 4, 2, pp. 49-52 (1929).
9. Stain solubilities. Part IV. W. C. Holmes. Stain Technology 4, 3, pp. 73-74 (1929).
10. The mechanism of staining. The case for the physical theories. W. C. Holmes. Stain Technology 4, 3, pp. 75-80 (1929).
11. Absorption ratios of biological stains. W. C. Holmes and A. R. Peterson. Stain Technology 5, p. 65 (1930).
12. Methods for the standardization of biological stains. Part I. A. R. Peterson, H. J. Conn and C. G. Melin. Stain Technology 8, p. 87, (1933).
13. Methods for the standardization of biological stains. Part II. A. R. Peterson, H. J. Conn and C. G. Melin. Stain Technology 8, p. 95 (1933).
14. Methods for the standardization of biological stains. Part III. A. R. Peterson, H. J. Conn and C. G. Melin. Stain Technology 8, p. 121 (1933).

15. Methods for the standardization of biological stains. Part IV.  
A. R. Peterson, H. J. Conn and C. G. Melin. Stain Technology 9, 2,  
pp. 41-48 (1934).
16. Methods for the standardization of biological stains. Part V.  
Miscellaneous dyes. A. R. Peterson, H. J. Conn and C. G. Melin.  
Stain Technology 9, p. 147 (1937).
17. The production of basic fuchsin suitable for the Feulgen technic.  
J. T. Scanlan and C. G. Melin. Stain Technology 12, 1, pp. 1-8  
(1937).

#### FOOD DYES

1. Detection of added color in butter or oleomargarine. H. A. Lubs.  
Ind. Eng. Chem. 10, p. 436 (1918).
2. Coal tar dyes we eat and drink. J. A. Ambler. Amer. Food Journal,  
18, p. 87 (1923).
3. Evidence concerning the constitution of Guinea Green B. H. Wales.  
J. Amer. Chem. Soc. 46, p. 2124 (1924).
4. Coal tar colors for use in foods. E. W. Schwartz and H. T. Herrick.  
Nation's Health, 8, p. 609 (1926).
5. Certified food colors - why, when and how. H. T. Herrick.  
News-Letter, Princeton Eng. Assoc. 7, p. 35 (1926).

DYES - INDICATORS

1. The use of thymosulfophthalein as an indicator in acidimetric titrations. A. B. Clark and H. A. Lubs. J. Amer. Chem. Soc. 40, p. 1443 (1918).
2. The spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators. I. The methods. W. C. Holmes. J. Amer. Chem. Soc. 46, 3, pp. 627-631 (1924).
3. The spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators. II. Thymol blue. W. C. Holmes and E. F. Snyder. J. Amer. Chem. Soc. 47, 1, pp. 221-226 (1925).
4. The spectrophotometric determination of hydrogen ion concentrations and of the apparent dissociation constants of indicators. III. Bromocresol Green. W. C. Holmes and E. F. Snyder. J. Amer. Chem. Soc. 47, 1, pp. 226-229 (1925).
5. The spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators. IV. 1-naphthol-2-sodium sulfonate indophenol. W. C. Holmes and E. F. Snyder. J. Amer. Chem. Soc. 47, pp. 2232-2236 (1925).
6. The spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators. V. Fast Green FCF. W. C. Holmes and E. F. Snyder. J. Amer. Chem. Soc. 50, pp. 1907-1910 (1928).
7. Benzoyl auramine G. A new indicator for Kjeldahl nitrogen determinations. J. T. Scanlan and J. D. Reid. Ind. Eng. Chem., Anal. Ed. 7, p. 125 (1935).

